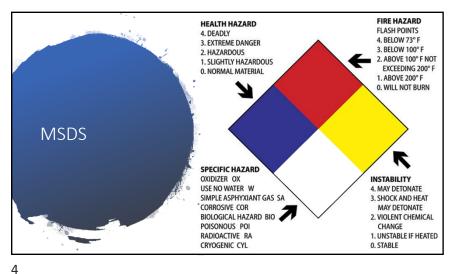
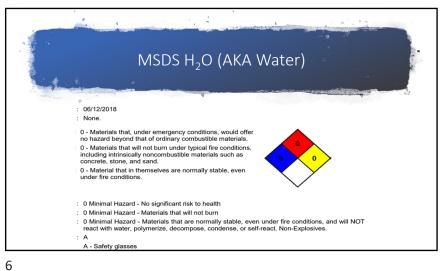


Qualitative vs Quantitative Data Categorical Data Numerical Data Overview: Overview: Quantitate •Deals with descriptions. •Deals with numbers. VS •Data which can be •Data can be observed but not measured. measured. Qualitative ·Colors, textures, smells, ·Length, height, area, volume, tastes, appearance, beauty, weight, speed, time, temperature, humidity, sound levels, cost, members, ages, Qualitative → Quality Quantitative → Quantity

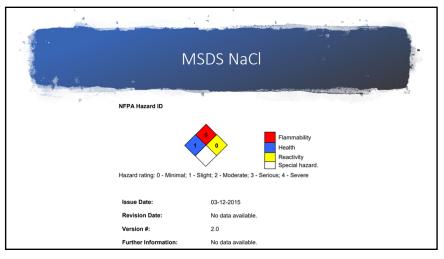




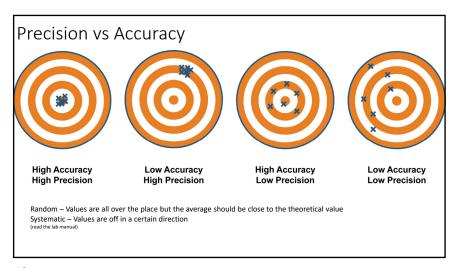


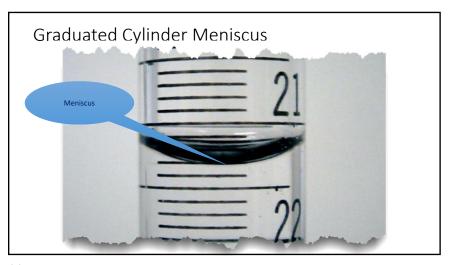
Additional Risks R20: Harmful by inhalation R1: Explosive when dry R2: Risk of explosion by shock, friction, fire or R21: Harmful in contact with skin other sources of ignition R22: Harmful if swallowed R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition R23: Toxic by inhalation R24: Toxic in contact with skin · R4: Forms very sensitive explosive metallic R25: Toxic if swallowed compounds · R26: Very toxic by inhalation R5: Heating may cause an explosion . R27: Very toxic in contact with skin . R6: Explosive with or without contact with air · R28: Very toxic if swallowed R7: May cause fire R29: Contact with water liberates toxic gas. R8: Contact with combustible material may . R30: Can become highly flammable in use R31: Contact with acids liberates toxic gas R9: Explosive when mixed with combustible material · R32: Contact with acids liberates very toxic R10: Flammable R11: Highly flammable • Up to: - R66: Repeated exposure may cause skin dryness or cracking R12: Extremely flammable R14: Reacts violently with water R67: Vapours may cause drowsiness and dizziness R15: Contact with water liberates extremely flammable gases

7

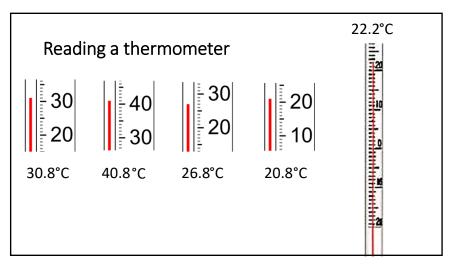


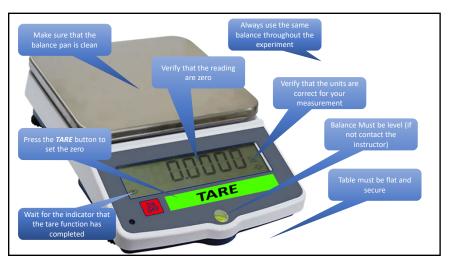






10 11



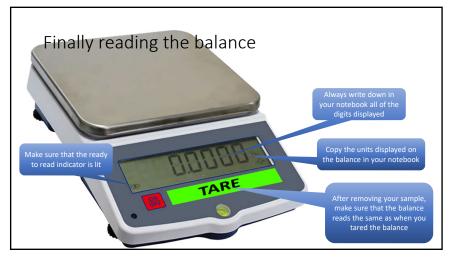


Things to remember when determining the mass of objects

- You hands contain oils and other contaminants. This can change measurements of approximately 0.01g. If you need higher precision, do not touch the objects with your hands.
- Liquids on the outside of containers are a "no no". Make sure that you are neat and tidy with performing measurements.
- Breathing, A/C and other turbulence on the balance pan can change measurements up to 0.1g. Make sure that there are no unnecessary turbulences on the balance pan.
- Center your sample on the balance pan. Some less costly balances will introduce errors if you place the sample near the edge.
- Always make sure that your measurements make sense.



14 15



Balance tricks

- Using the tare button to do your subtractions
- Using the tare button to assist with getting approximant measurements
 - You all showed up so no more... ©

In grading exercise A...

- Most points were lost due to individuals forgetting units
- Next most points were lost due to individuals forgetting significant digits
- I want a hearing aid for christmas



